

INDRANI PATNAIK

(MINES OWNER)

A/6, COMMERCIAL ESTATE, CIVIL TOWNSHIP, ROURKELA - 769 004
Phone : 0661-2400139, 2400014, FAX : 0661-2402226

REF.: IP/MM/JULY2025/013

DATE: 28.07.2025

To,
The Member Secretary,
State Pollution Control Board, Odisha,
Paribesh Bhawan, A/118,
Nilakantha Nagar, Unit - VIII,
Bhubaneswar - 751012.

Subject: Environment Statement of "Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik located in villages(s) Unchabali & Balada, Tehsil-Barbil, Dist: Keonjhar for the FY 2024-2025.

Sir,

With reference to the above subject, we are herewith submitting the **Environment Statement for the financial FY 2024-2025 in the Form - V** as per rule - 14 under Environment (Protection) Rules, 1986 in respect of **Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik.**

This is for your kind information, please.

Thanking You,

For **Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik**


28/7/25

Authorized Signatory

Mines Manager
Unchabali Iron & Mn. Mines
Indrani Patnaik

Encl.: As Above.

Copy to: The Regional Officer, SPCB, Regional Office, College Road, And Dist.: Keonjhar, Odisha.

[FORM-V]
(See Rule 14)

Environment Statement for the financial year ending the 31st March 2025

PART-A

- | | | |
|--|---|--|
| (1) Name and address of the owner
/ Occupier of the industry,
Operation or process | - | Unchabali Iron & Mn. Mines of
Smt. Indrani Patnaik
At- Unchabali, P.O: Bamebari
Dist. Keonjhar, Odisha -758034.
Email:ags@altradegroup.com,
Contact no: 9437062184. |
| (2) Industry category Primary | - | (STC CODE) Secondary-(SIC Code) |
| (3) Production capacity Units | - | 4.0 MTPA |
| (4) Year of establishment | - | 20 May 2008 (year of commencement) |
| (5) Date of the last Environmental
Statement Submitted | - | 24.08.2024. |

PART-B

Water and Raw material Consumption:

- | | | |
|---|---|-------------------------------|
| (1) Water Consumption m ³ /day | - | 379 m³/ Day |
| Process | - | 75 m³/ Day |
| Cooling (Water sprinkling on Haul roads) | - | 210 m³/ Day |
| Domestic (Drinking purpose) | - | 94 m³/ Day |

Name of Product	Process water consumption per unit of output
-----------------	--

Sized Iron Ore

NA

During the previous
Financial year

during the current
financial year

(1)

(2)

-
- (1)
(2)
(3)

-
1. Substituted by rule 2 (b) of the environment (Protection) amendment rules, 1993 notified vide G.S.R vide G.S.R 3'6 (E) dated 22.04.1993.

(ii) Raw material consumption

-

Not applicable

Name of raw Material	Name of Products material	Consumption of raw per unit of out put
	During the previous Financial Year	during the current Financial year

*Industry may use codes if disclosing details or raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment /unit of output - Not Applicable
(Parameter as specified in the consent issued)

A) Water:

(Parameter as specified in the consent issued)			
Pollutants	Quantity of Pollutants Discharged (Mass / day)	Conc. of Pollutants Discharged (Mass / Volume)	% of variation from prescribed standard with reasons
Water (ETP Discharge) 1 M³/Day			
pH	NA	6.83	Within the Range
TSS	0.0318 kg /day	31.75 mg/ lit	36.50 % below the norm
Oil & Grease	0.0014 kg /day	1.36 mg/ lit	86.36 % below the norm
Water (S.T.P Discharge) 10 M³ / D			
pH	NA	6.84	Within the Range
T.S.S	0.1673 kg/day	16.73 mg/ lit	83.27 % below the norm
B.O.D	0.1020 kg/day	10.20 mg/ lit	66.00 % below the norm
Mines Surface runoff water Quality Report			
pH	NA	6.88	Within the Range
T.S.S	312.76 kg /day	64.67 mg/ lit	35.33 % below the norm
Oil & Grease	1.47 kg / day	0.31 mg/ lit	96.95 % below the norm

Air: Not Applicable

Note: Present there is no such trade effluent and source of emissions from current mines operation methodology.

PART - D
Hazardous Wastes

(As specified under Hazardous Waste/ Management and Handling Rules, 1986)

Hazardous waste [Waste Oil]	Total Quantity [KL]	
	During the previous Financial year	During the Current financial year
1) From process	NA	NA
2) From Pollution Control FACILITY	NA	NA
3) Used Oil	16.510 KL	5.460 KL
4) Oil contaminated waste	0.110 TON	0.050 TON

PART-E
Solid Waste

	Total Quantity	
	During the previous Financial year	during the current financial year
(a) From process:		
(Overburden and Intercalated Waste)	: 462476 (MT)	320040 (MT)
(b) From pollution control facility	: NIL	Nil
(c) (1) Quantity recycled or re-utilized Within the unit	: Nil	Nil
(2) Sold	: Nil	Nil
(3) Disposed	: Kept in within ML area	

PART-F

Please specify the characteristics (in terms of composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- ✚ As per the HWA guidelines the used oil generation is being stored at an earmarked area and the same is also being disposed to authorized recycler in a proper manner.
- ✚ The used Lead acid batteries are kept at an earmarked area of HW management yard in a proper manner as per the guidelines, which is later disposed to an authorized recycler through buy-back system.
- ✚ The generation of OB & Intercalated waste is dumped in earmarked area as per approved mining plan & scheme with following mitigate measures such as proper sloping, terracing, and toe retention wall & garland drainage. Further, to avoid the dump erosion surface area of the dump was muted with Plantation & Geo textile applications along with local grass seeds.

PART-G

Impact of the pollution abatement measures taken on conservation of natural re-sources and on the cost of the production

- ✚ The roof top rain water harvesting has been implemented at site employee's camp & Unchabali Village Medical centre in the direction of natural conservation of water resources as recommended by KRG rainwater harvesting with the consultation of the regional director, CGWB, Bhubaneswar. From this establishment 4200, Cub.M./year water is being recharged to the ground.
- ✚ The project has constructed/ developed four numbers water harvesting ponds in surrounding villages to encourage the water table. The ponds are regularly de-silted and well maintained on regular basis. Total harvesting pond water holding capacity is 1.5 Lakh Cub.M./year.
- ✚ The massive plantation of 8100 no.s has been done at mines OB dump; work out benches, safety zone and local villages.
- ✚ The top soil is stored in a proper manner and the same has been utilized for plantation and camp garden.
- ✚ Coir matting, retaining wall, garland drainage and check dam are provided to mines dump and soil erosion areas.
- ✚ Check dams & check wears are provided at the toe of the mines.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution

- ✚ 2.5 KM automatic fixed sprinkler has been implemented for mines dispatch road dust suppression.
- ✚ Three no. of 25 KL capacity mobile water tanker has engaged for mines haul road dust suppression.
- ✚ Three numbers of 8 KL mobile water tanker have been engaged for village road dust suppression
- ✚ Effective dry fog system has been implemented in all the crusher and screen plant
- ✚ Rain water harvesting plant has been implemented at employees camp to increase the water table
- ✚ Rain water harvesting has been implemented at village Unchabali Medical Centre to increase the water table.
- ✚ Dust extraction and wetting process are being used for drilling process
- ✚ 60 KL/d 02 no.s STP plants implemented at camp to treat the sewage water and the treated water is utilized for plantation & garden watering.
- ✚ ETP plant has been implemented at mines service center and the treated water is utilized for plantation and & garden watering.
- ✚ Plantation in safety zone, school area, camp areas and dump areas
- ✚ Coir matting and mixed grass application over dumps for better stabilization
- ✚ Check-dam for silt control in surface run-off from mines area.
- ✚ Control blasting is being carried out to prevent the ground vibration and fly rocks.

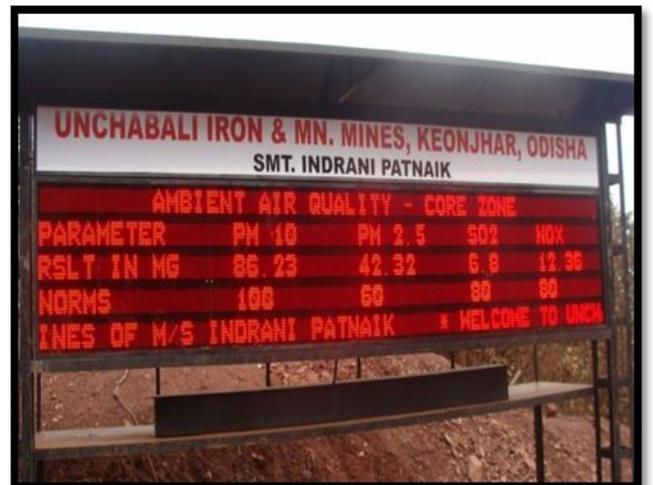
PART-I

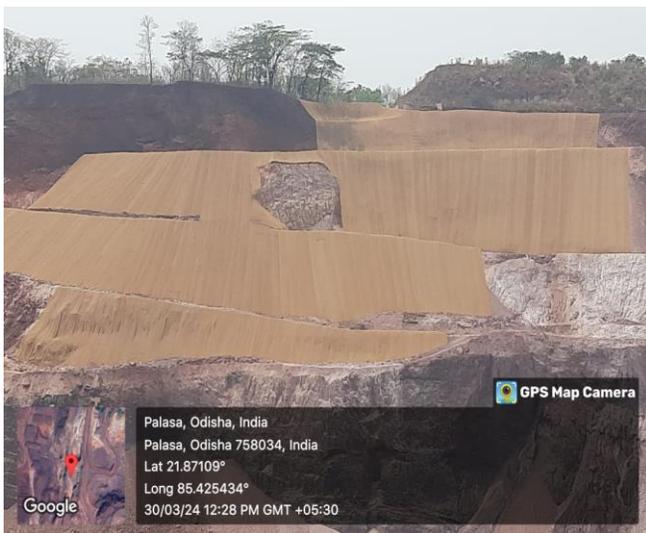
Any other particulars for improving the quality of the environment

- 1) Regular internal awareness program is being given to the company employees, local villagers and school children regarding the environment and pollution.
- 2) The world environmental day, forest day, earth day, safety day & wild life week has been celebrated regularly along with school children's & company employee's , the celebration was followed through environmental awareness program.
- 3) Nallah protection measures like guard wall with filtration arrangements, check weir check dams, stone patching and plantation are constructed around the premises of the mine.

SUPPORTING PHOTOS:









Joda - Bamebari - Palasponga
 Rd, Balada, Odisha 758034,
 India
 clear sky
 26.0 °C
 07 Nov 2024 10:07 am

Unnamed Road, Odisha
 758034, India
 07 Nov 2024 10:07 am



